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09/944,698	08/31/2001	Manabu Ohta	0154/01025	2143
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	V & FLAYNIK	RODRIGUEZ, ISABEL		
THE CIVIC OPERA BUILDING 20 NORTH WACKER DRIVE, SUITE 1447 CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

BEST AVAILABLE COPY

Applicant(s) Office Action Summary Examiner Stabel Rodriguez 2836			æ					
Examinor Isabel Rodriguez 2336		Application No.						
Isabel Rodriguez 2336		09/944,698	OHTA ET AL.					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3/C PR 1.15(a). In cevent, however, may a raply be timely flied Extensions of time may be available under the provisions of 3/C PR 1.15(b). In cevent, however, may a raply be timely flied Extensions of time may be available under the provisions of 3/C PR 1.15(a). In cevent, however, may a raply be timely flied Extensions of time may be available under the provisions of 3/C PR 1.15(b). In cevent, however, may a raply be timely flied Extension of time may be available under the provisions of the central control of the raply specified above, the maximum adaptive and visions of the central control of the raply specified above, the maximum adaptive and visions of the provisions of the provisions of the provision of the provisions	Office Action Summary	Examiner	Art Unit					
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-2 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Mizuno et al (US 6,011,416).

Regarding claim 1, Mizuno et al. discloses a rare short circuit determining device for determining whether a rare short circuit, which results from the generation of heat exceeding a predetermined value, has occurred in a load circuit, the rare short circuit determining device comprising a sensor(3) for detecting a load current., which flows through the load circuit, and for generating a detection

Signal (6); and a determining circuit (4) connected to the sensor for determining whether a rare short circuit has occurred, wherein the determination circuit calculates one of a first parameter



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and a second parameter every predetermined time interval based on the detection signal, the first parameter relating to a first time period during which the load current exceeds a predetermined reference current value, and the second parameter relating to a second time period during which the load current is less than or equal to the predetermined reference current value, wherein the determining circuit cumulates the calculated one of the parameters every predetermined time interval to calculate a cumulative parameter value and determines whether a rare short circuit has occurred based on the cumulative parameter value. See fig. 2.

Regarding claims 2 and 8, Mizuno et al. discloses the rare short circuit determining device according to claim 1, wherein the determining circuit is connected to a shutdown circuit for stopping the supply of the load current from a power supply to the load circuit, and wherein the determining circuit controls the shutdown circuit to stop supplying the load circuit with the load current when it is determined that a rare short circuit has occurred. See fig. 2.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-4, 6, 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizuno et al. in view of Deb (US 5,933,355).
- a) Regarding claims 3-4, 6, 9-10, Mizuno et al. discloses a rare short circuit determining device but does not disclose that the first parameter is one of joule heat and arc heat and the

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second parameter is radiated heat. Deb discloses modeling temperature based on currents and known quantities such as joule heat and heat loss. See col. 20 lines 52-60. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use joule heat

and heat loss to calculate temperature because it is a known method of modeling temperature.

b) Regarding claims 5 and 7, Mizuno et al. in view of Deb discloses the rare short circuit determining device wherein the determining circuit is connected to a shutdown circuit for stopping the supply of the load current from a power supply to the load circuit, and wherein the determining circuit controls the shutdown circuit to stop supplying the load circuit with the load

current when it is determined that a rare short circuit has occurred. See fig. 2.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isabel Rodriguez whose telephone number is 703-305-4761. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 703-308-3119. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7724 for regular communications and 703-308-7704 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

IR October 1, 2003 BRIAN SIRCUS
SUPERVISORY PATENT EXAMINER
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